

1/24

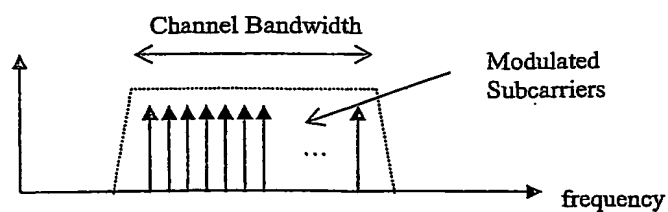


Figure 1

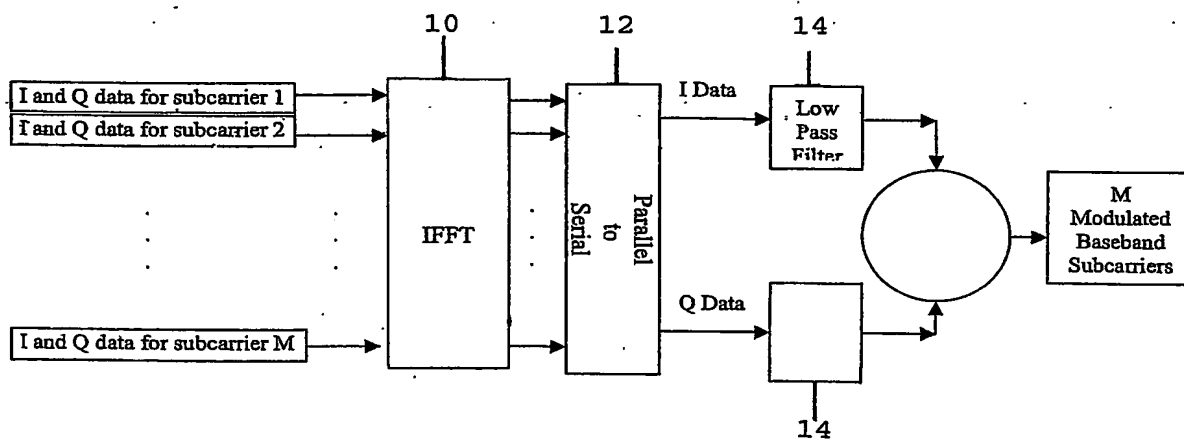


Figure 2

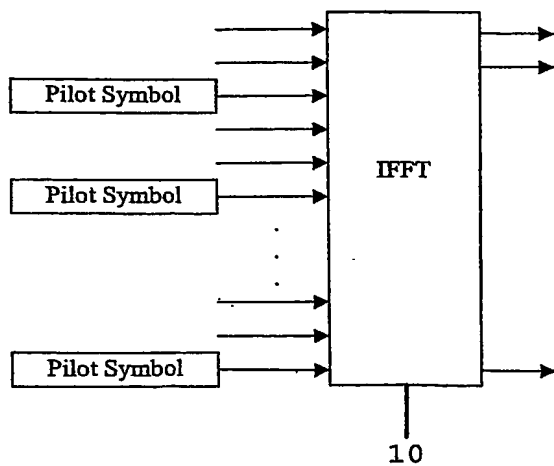


Figure 3

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Normal Block $S_1$	Reciprocal Block $S_2$
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Figure 4

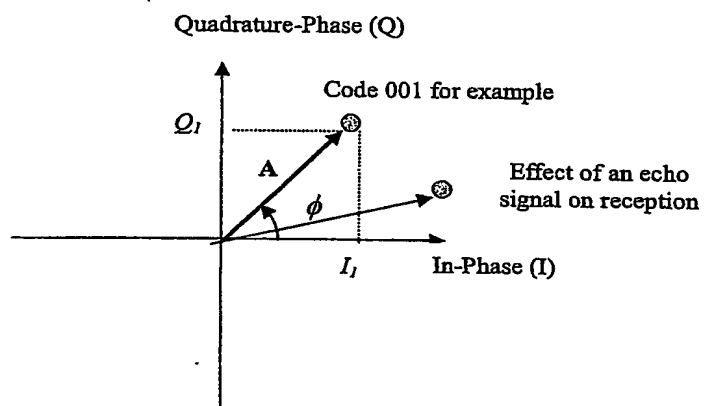


Figure 5

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Data 1	Data 2	...	Data k	...	Data (N-1)	Data N
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Figure 6

$$\begin{array}{ccc}
 \begin{array}{c} \text{Data} \\ \text{Block} \\ 1 \end{array} & \begin{array}{c} \text{Data} \\ \text{Block} \\ 2 \end{array} & \begin{array}{c} \text{Pilot Control} \\ \text{Data} \\ \text{Block} \\ k \end{array} \\
 \begin{bmatrix} A_{110} \exp(j(\phi_{110} + \phi_{k10})) \\ A_{120} \exp(j(\phi_{120} + \phi_{k20})) \\ \vdots \\ A_{1M0} \exp(j(\phi_{1M0} + \phi_{kM0})) \end{bmatrix} & \begin{bmatrix} A_{210} \exp(j(\phi_{210} + \phi_{k10})) \\ A_{220} \exp(j(\phi_{220} + \phi_{k20})) \\ \vdots \\ A_{2M0} \exp(j(\phi_{2M0} + \phi_{kM0})) \end{bmatrix} & \begin{bmatrix} A_{k10} \exp(j\phi_{k10}) \\ A_{k20} \exp(j\phi_{k20}) \\ \vdots \\ A_{kM0} \exp(j\phi_{kM0}) \end{bmatrix} \\
 & \dots & \dots \\
 & \begin{bmatrix} A_{N10} \exp(j(\phi_{N10} + \phi_{k10})) \\ A_{N20} \exp(j(\phi_{N20} + \phi_{k20})) \\ \vdots \\ A_{NM0} \exp(j(\phi_{NM0} + \phi_{kM0})) \end{bmatrix} & \\
 & \begin{array}{c} \text{Data} \\ \text{Block} \\ N \end{array} & 
 \end{array}$$

Figure 7

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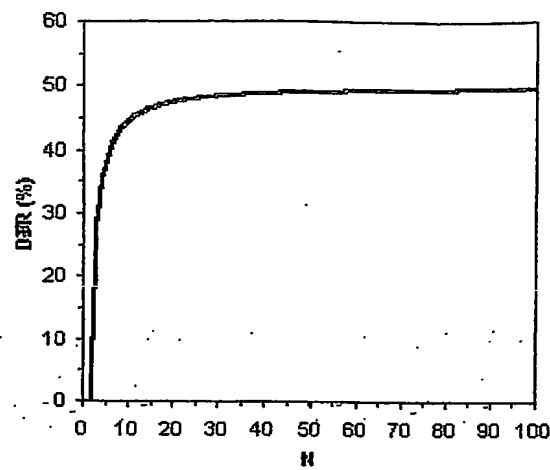


Figure 8

Data 1	Pilot Control Block Data 2	Data3
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Figure 9

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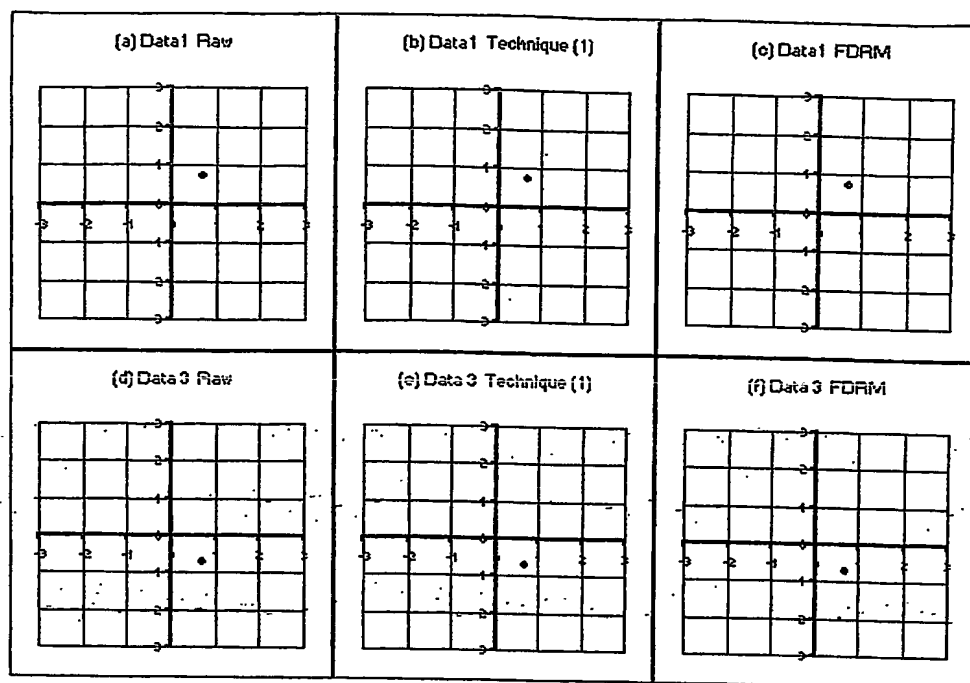


Figure 10

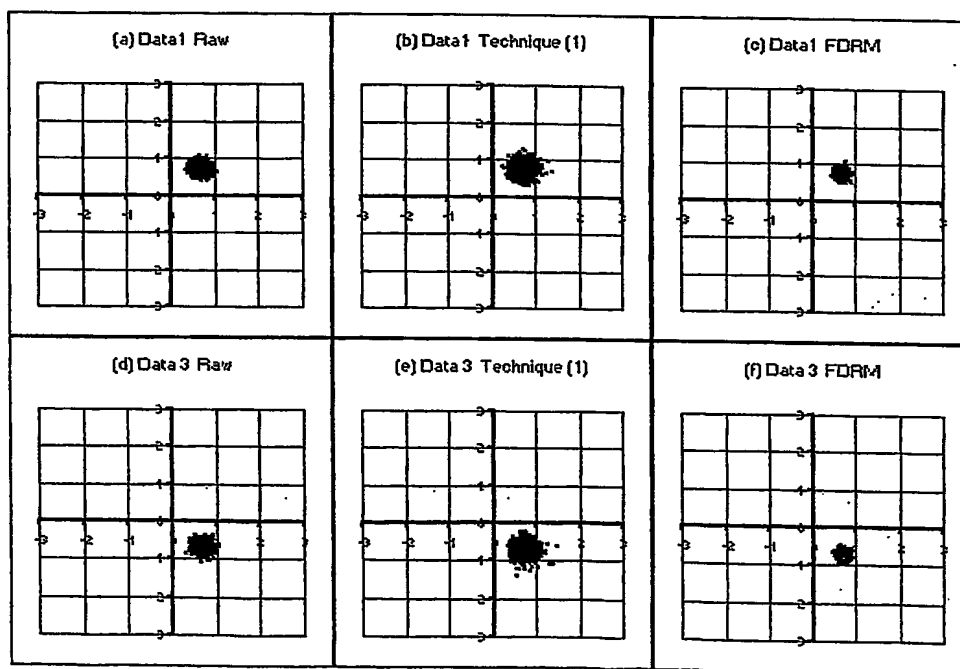


Figure 11

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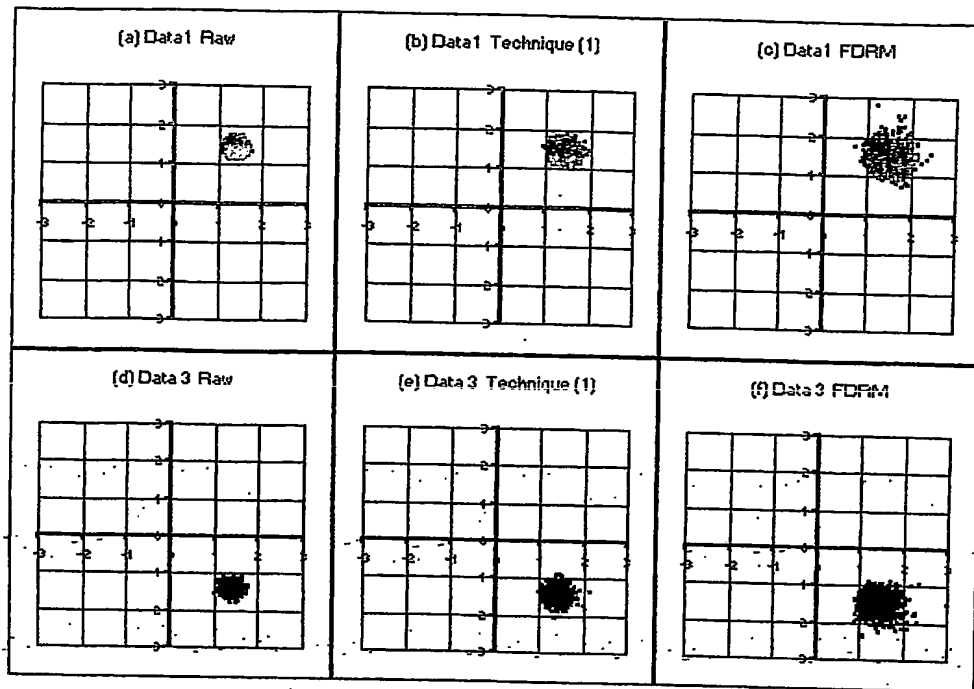


Figure 12

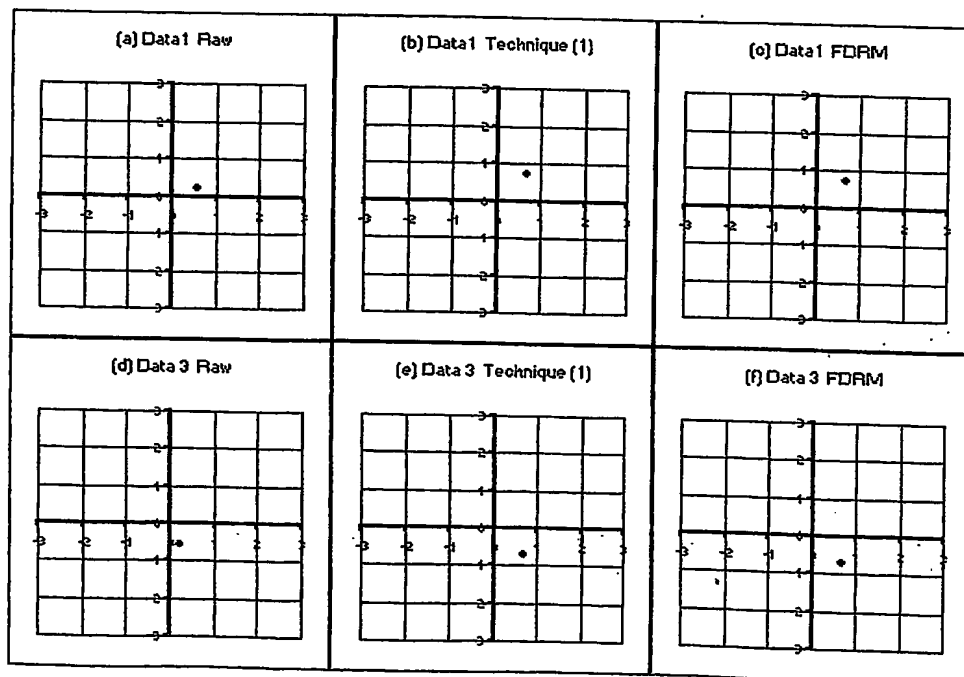


Figure 13

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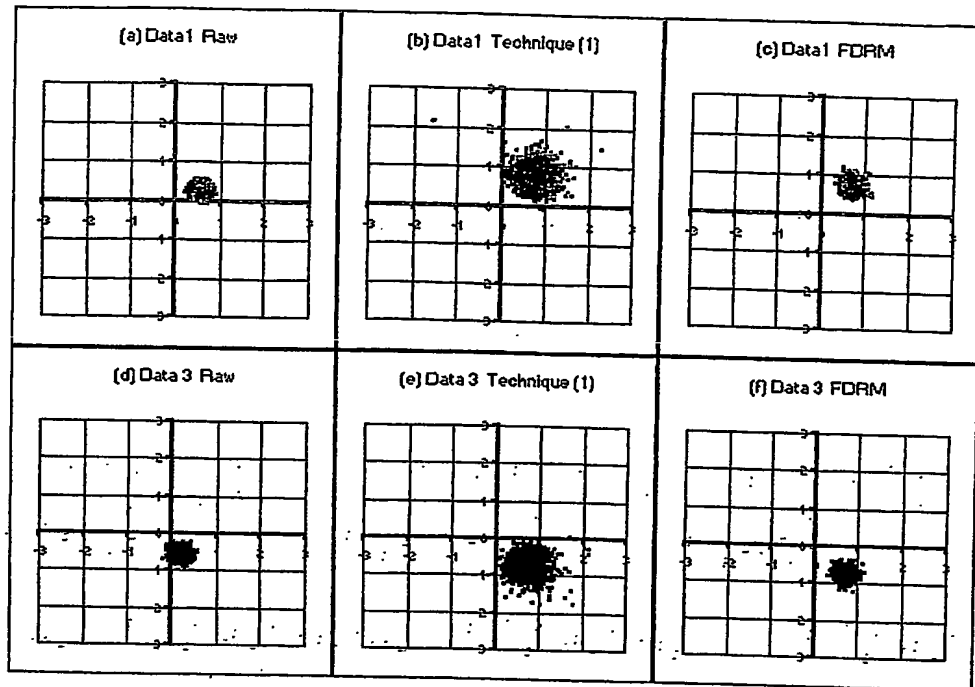


Figure 14

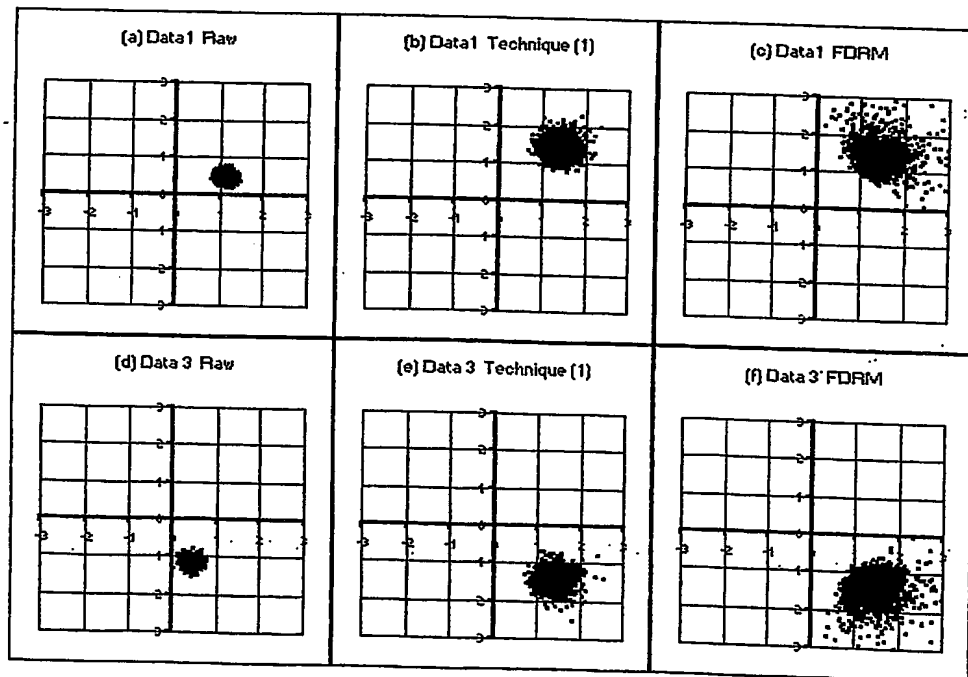


Figure 15

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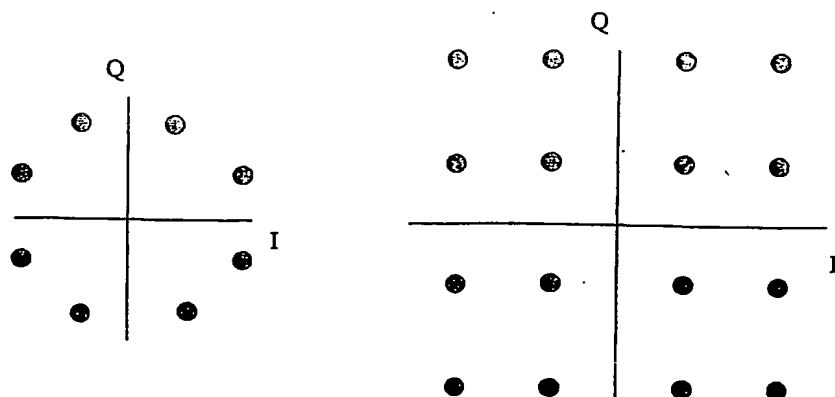


Figure 16

Data 1	Data 2	...	Data k	...	Data (N-1)	Data N
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Figure 17

Data 1	Pilot Control Block Data 2	Data3
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Figure 18

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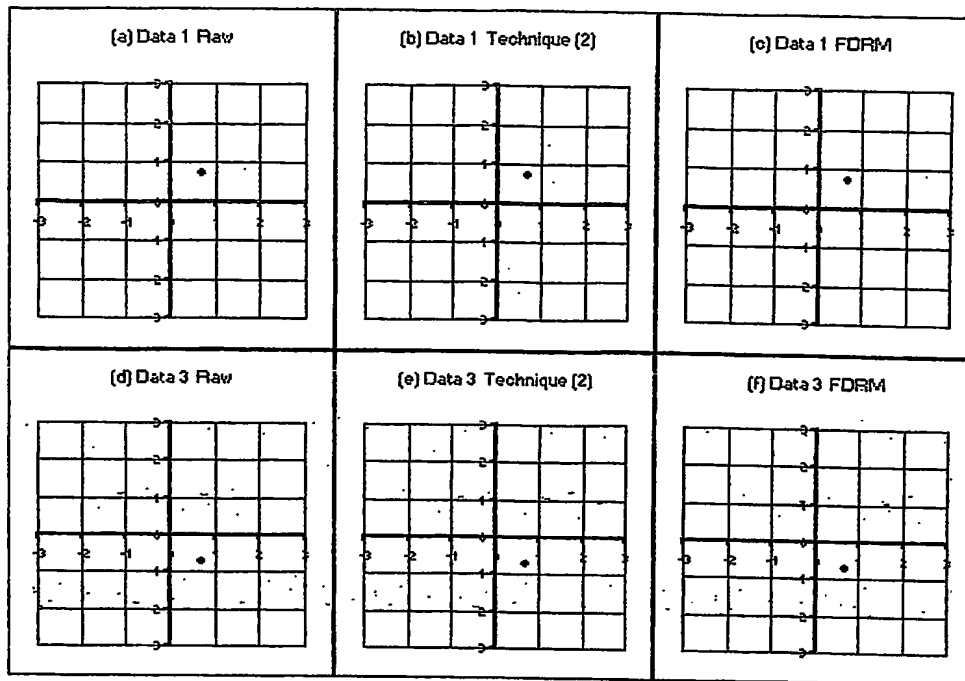


Figure 19

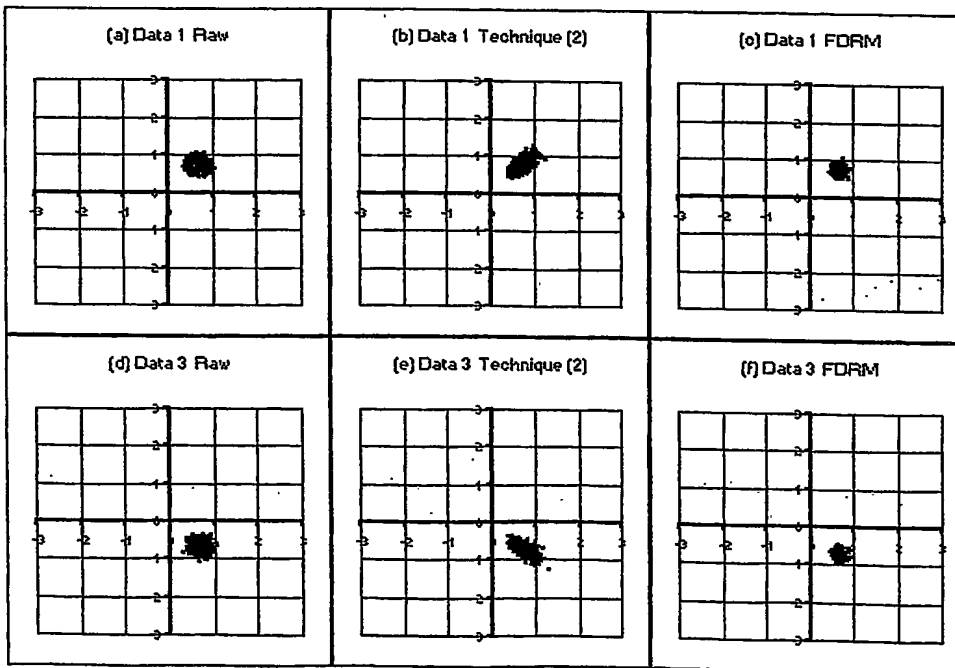


Figure 20

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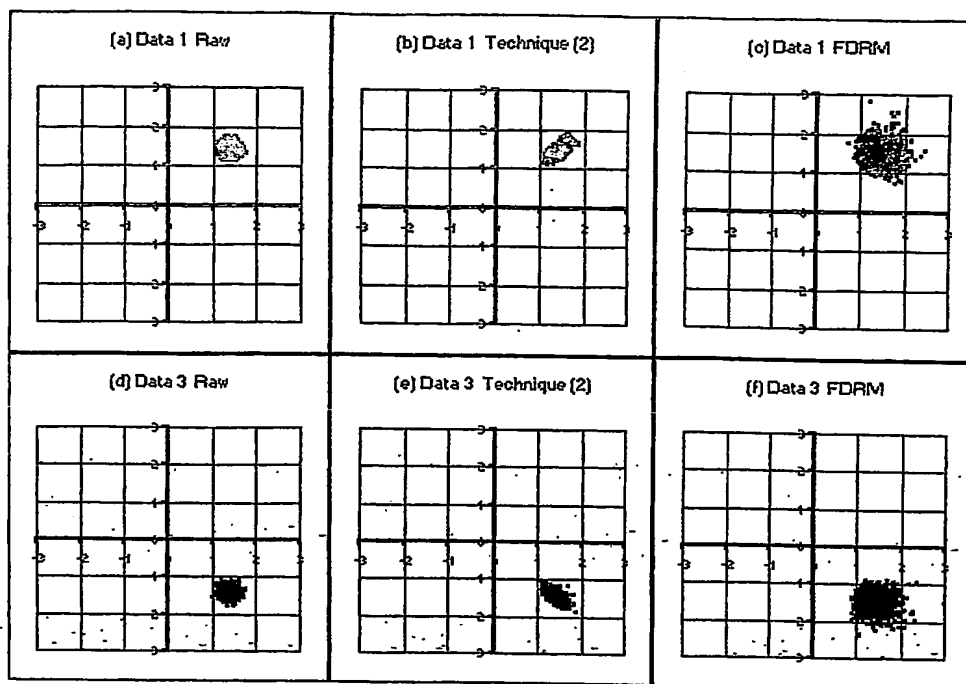


Figure 21

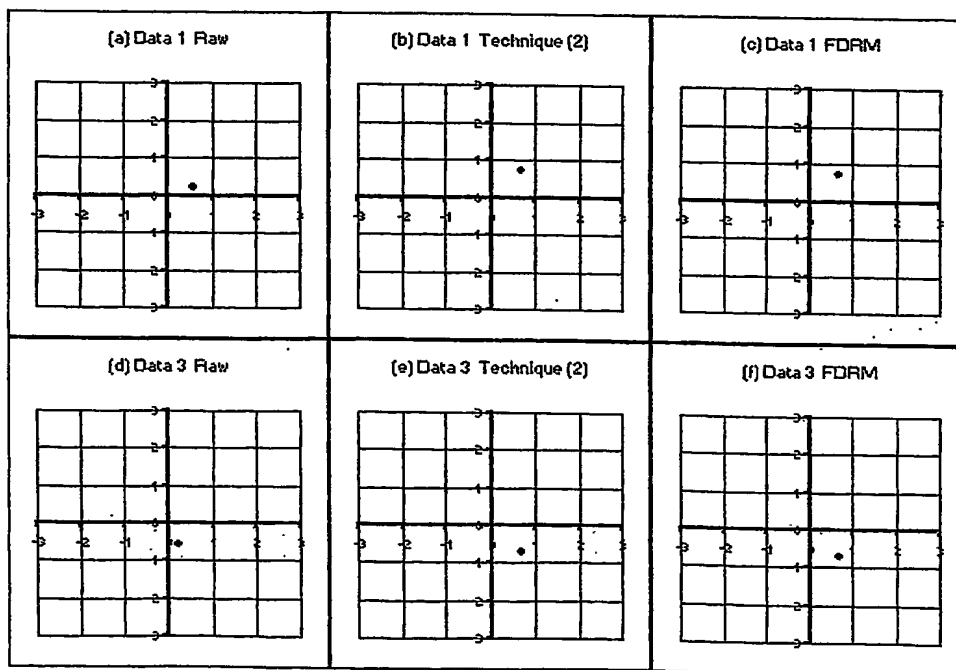


Figure 22

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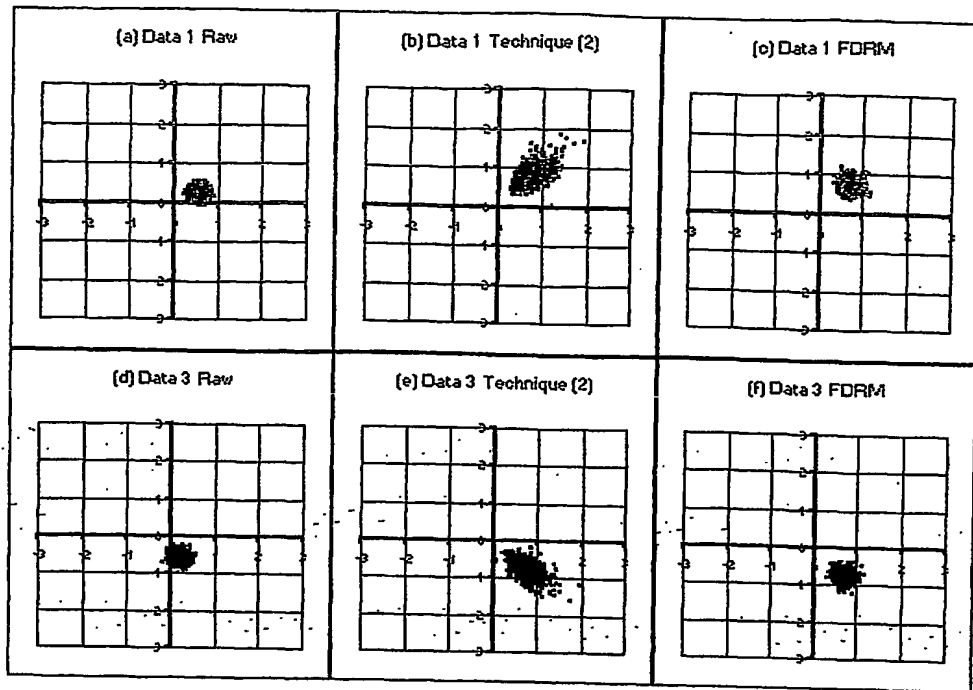


Figure 23

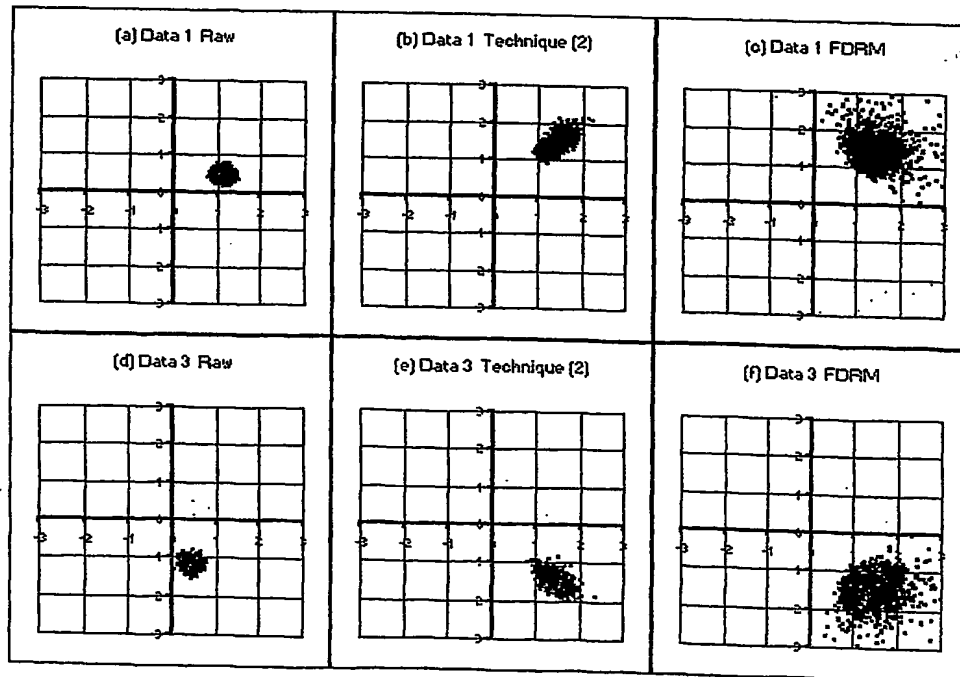


Figure 24

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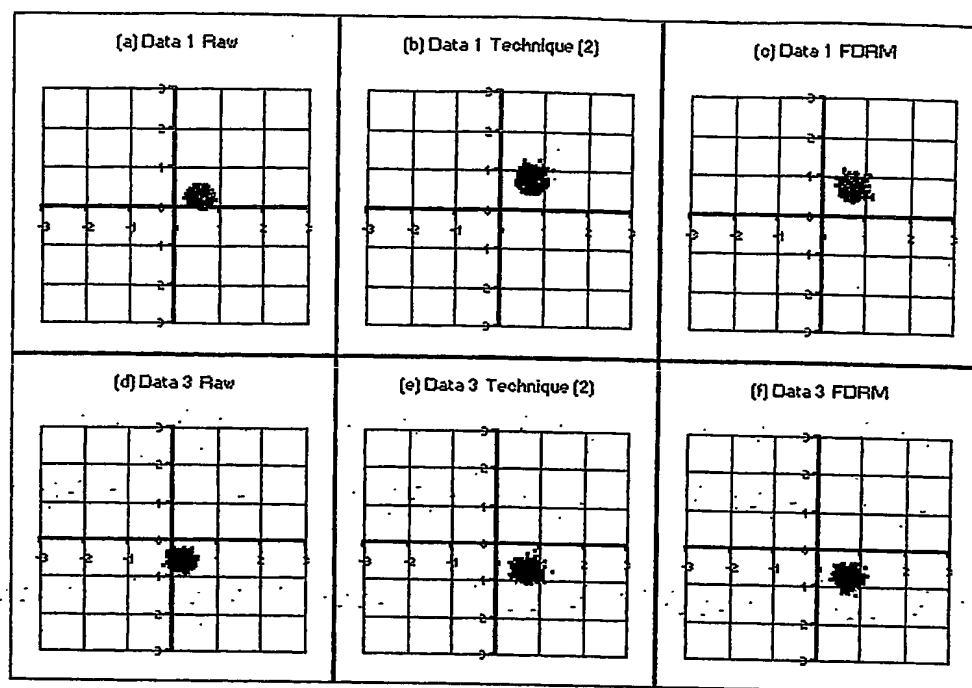


Figure 25

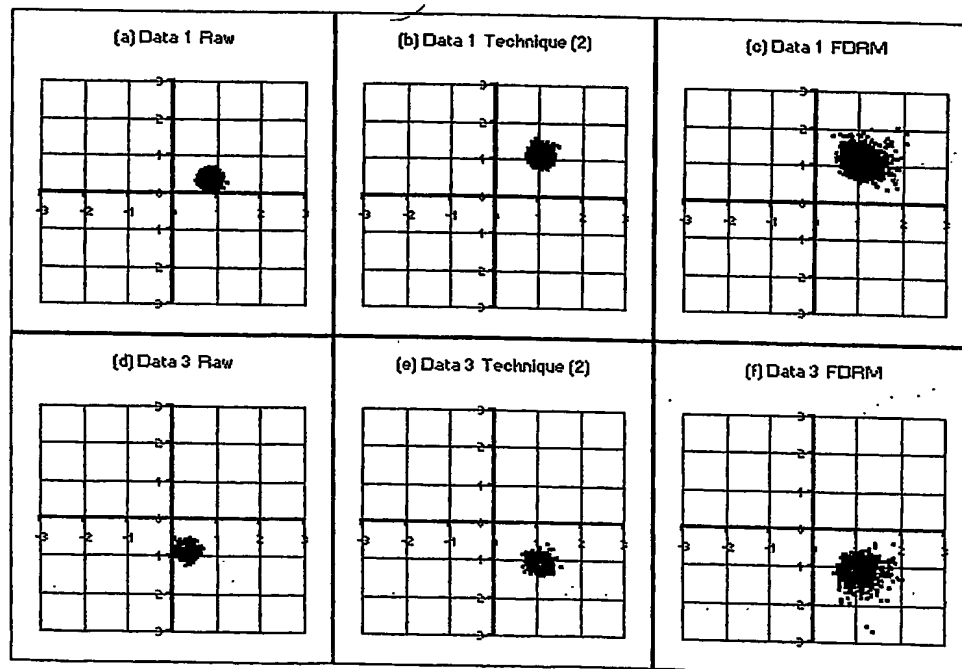


Figure 26

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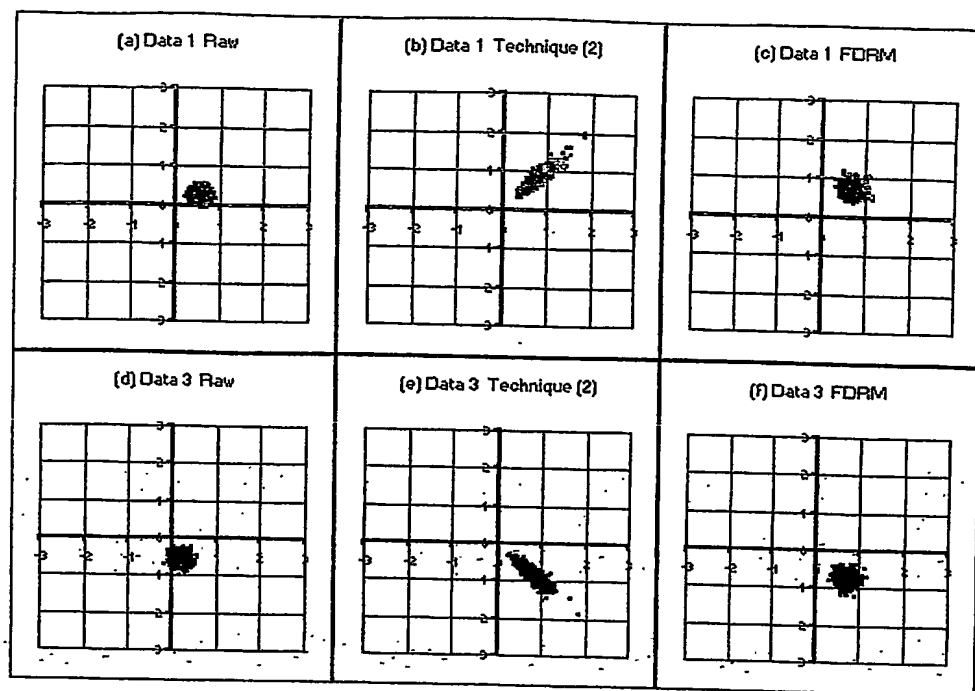


Figure 27

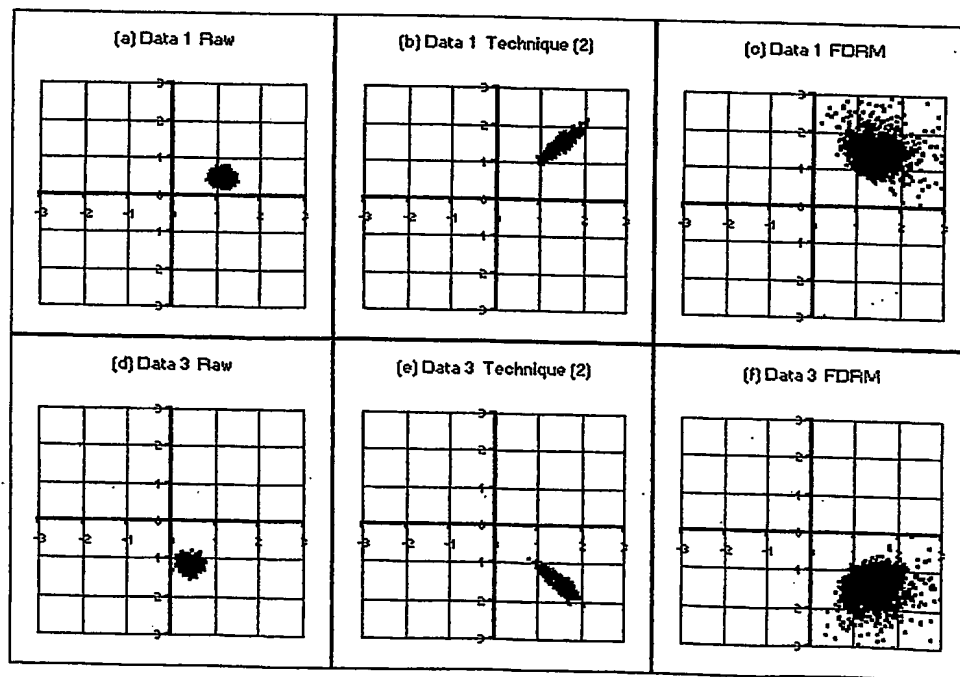


Figure 28

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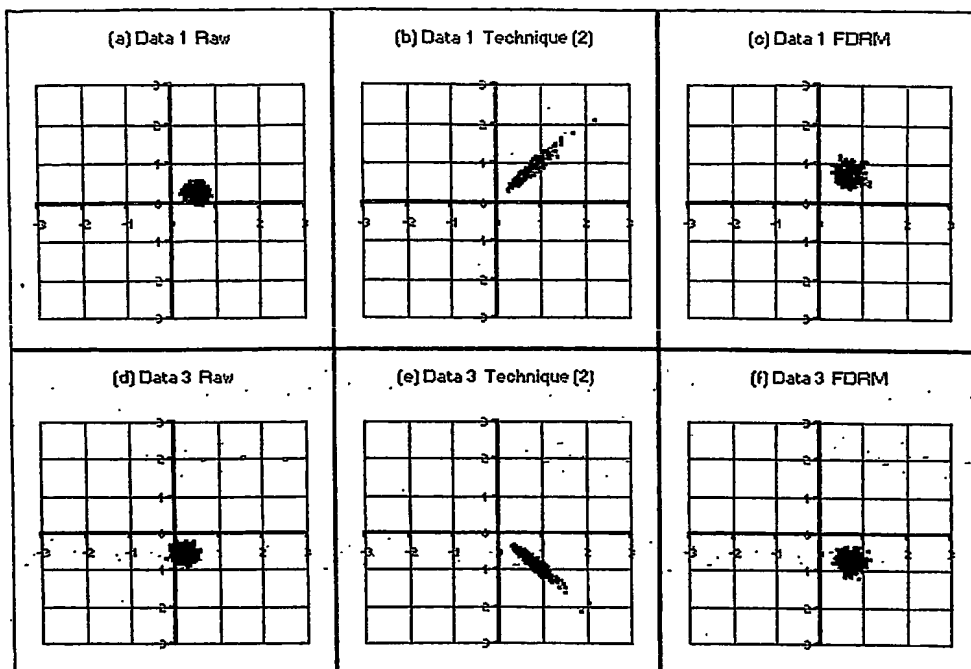


Figure 29

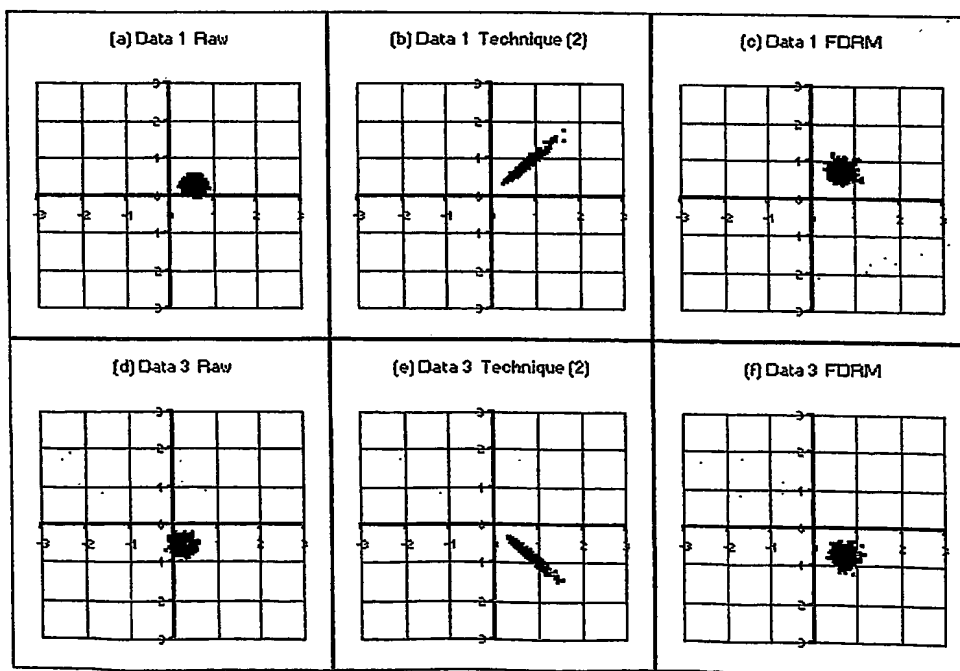


Figure 30

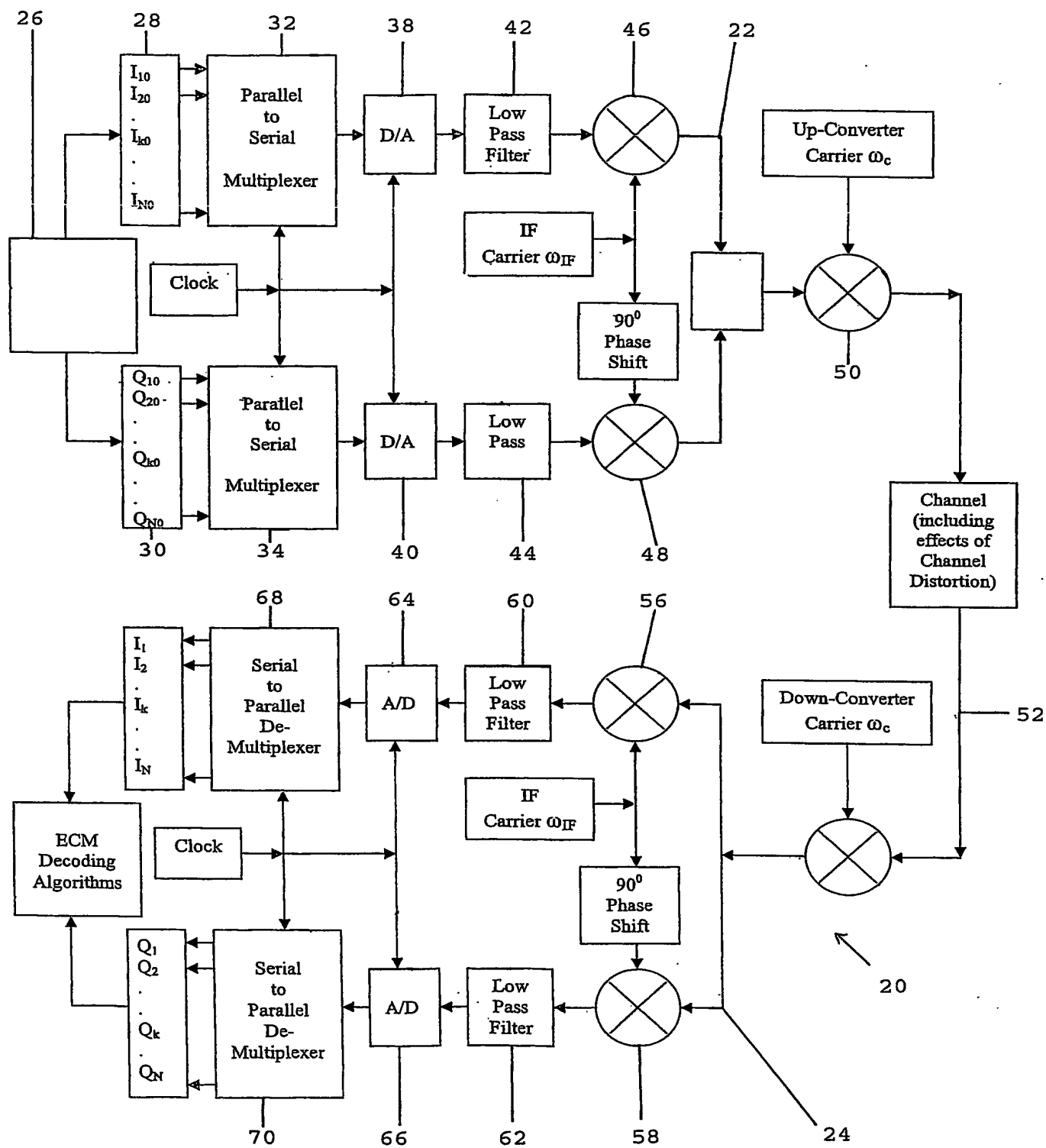


Figure 31

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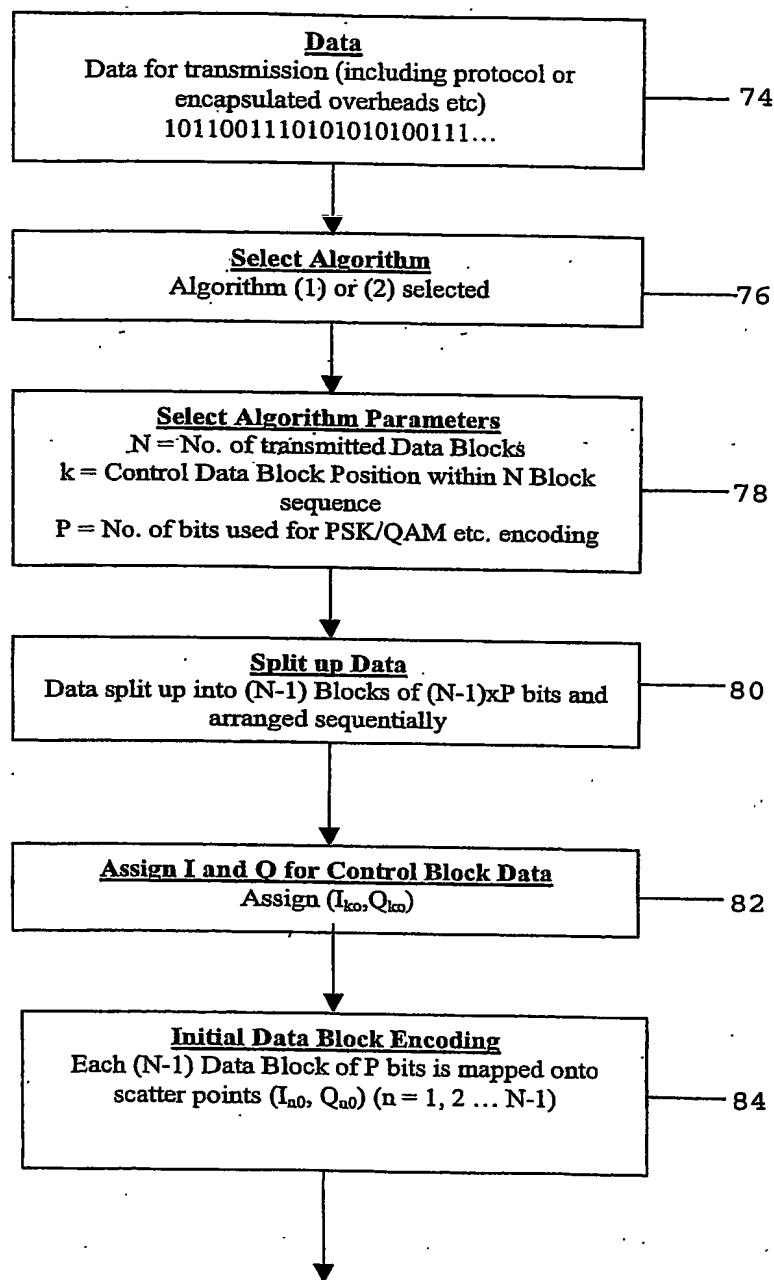


Figure 32

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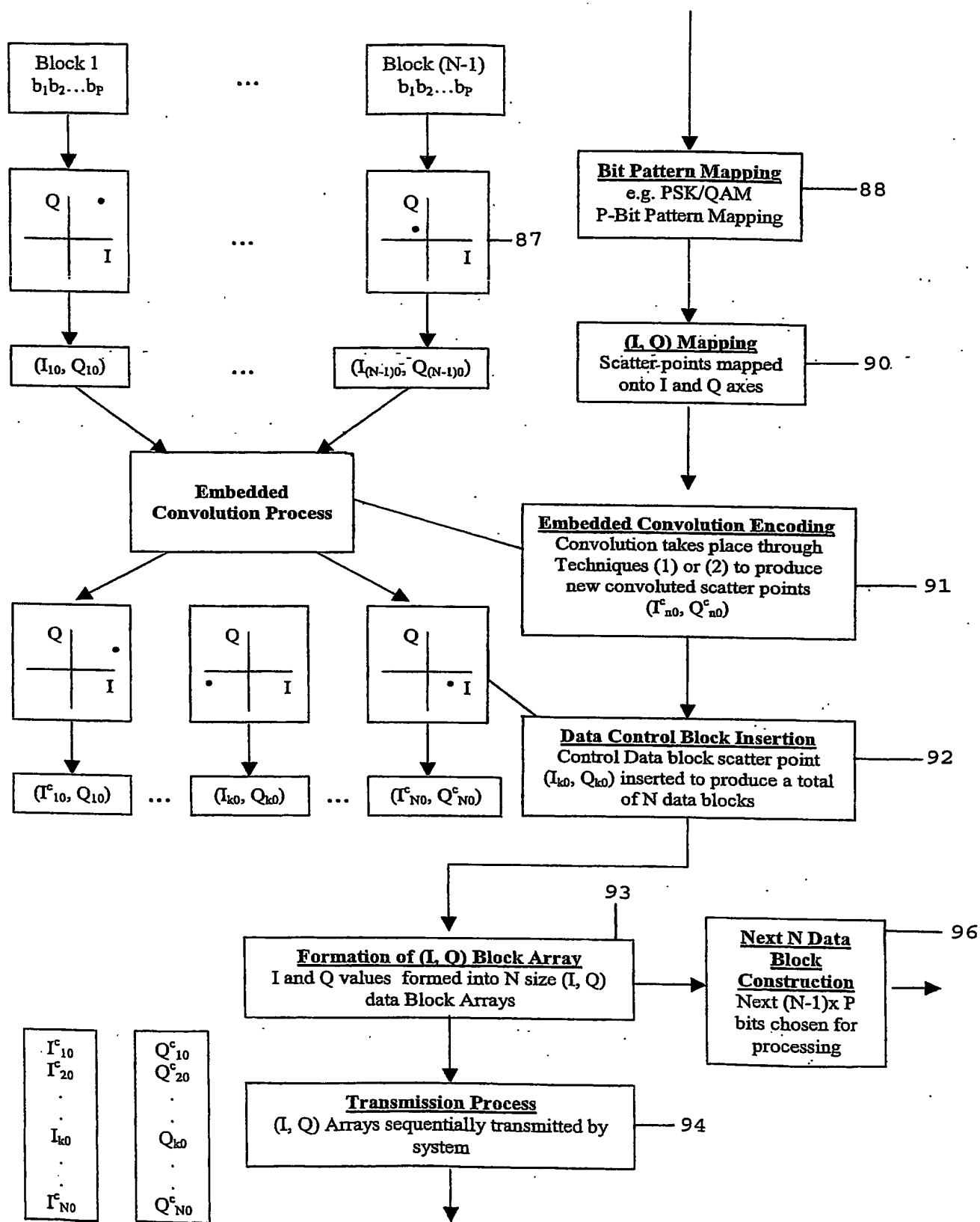


Figure 32 (Contd)

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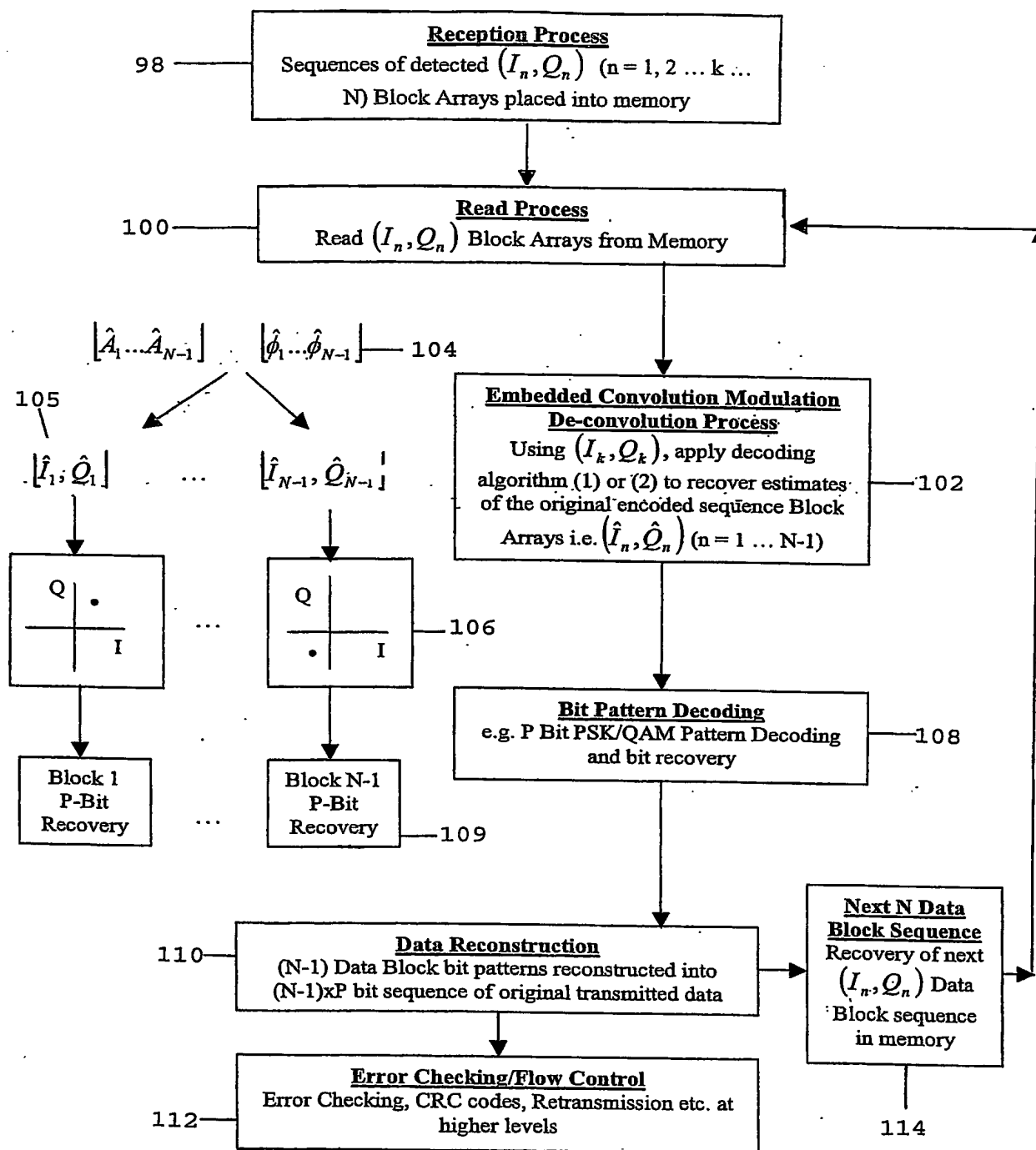


Figure 33

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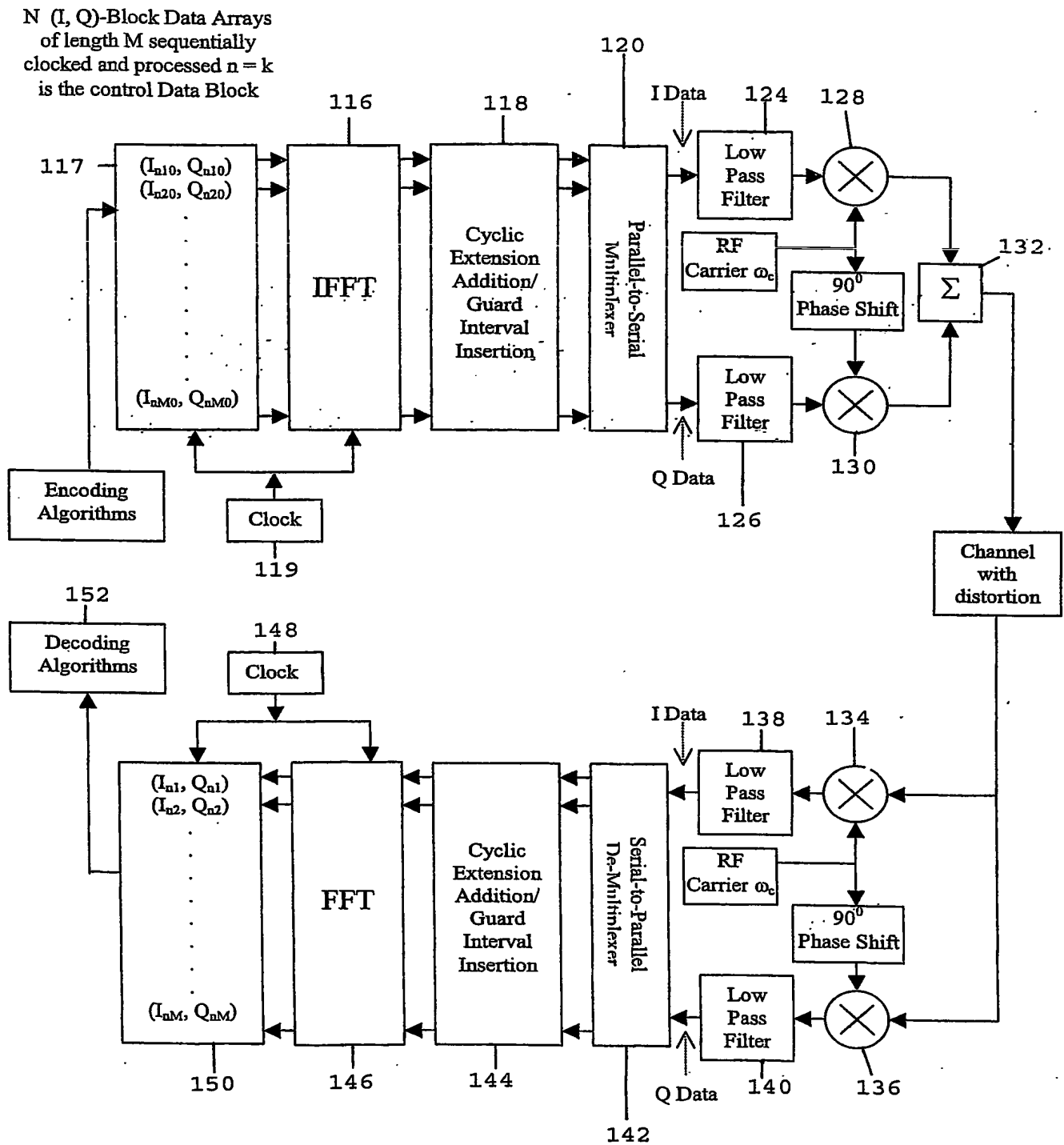


Figure 34

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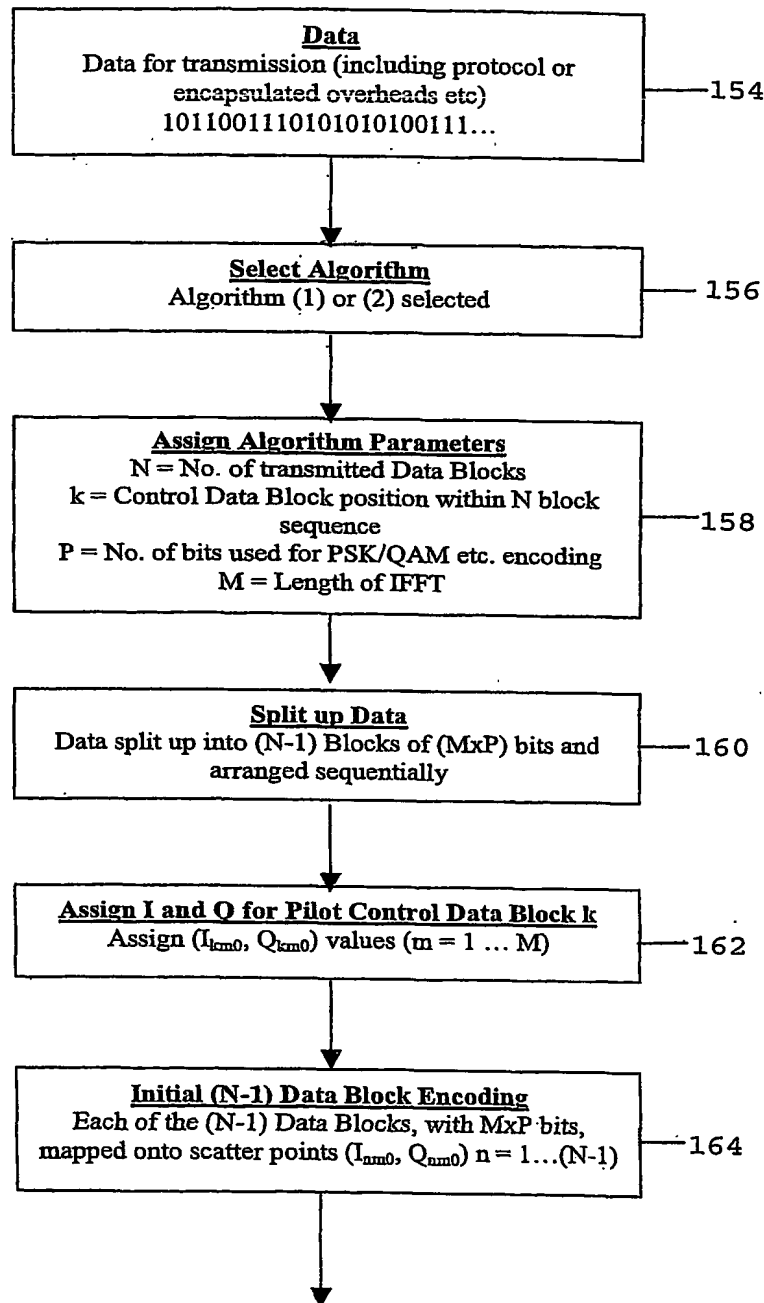


Figure 35

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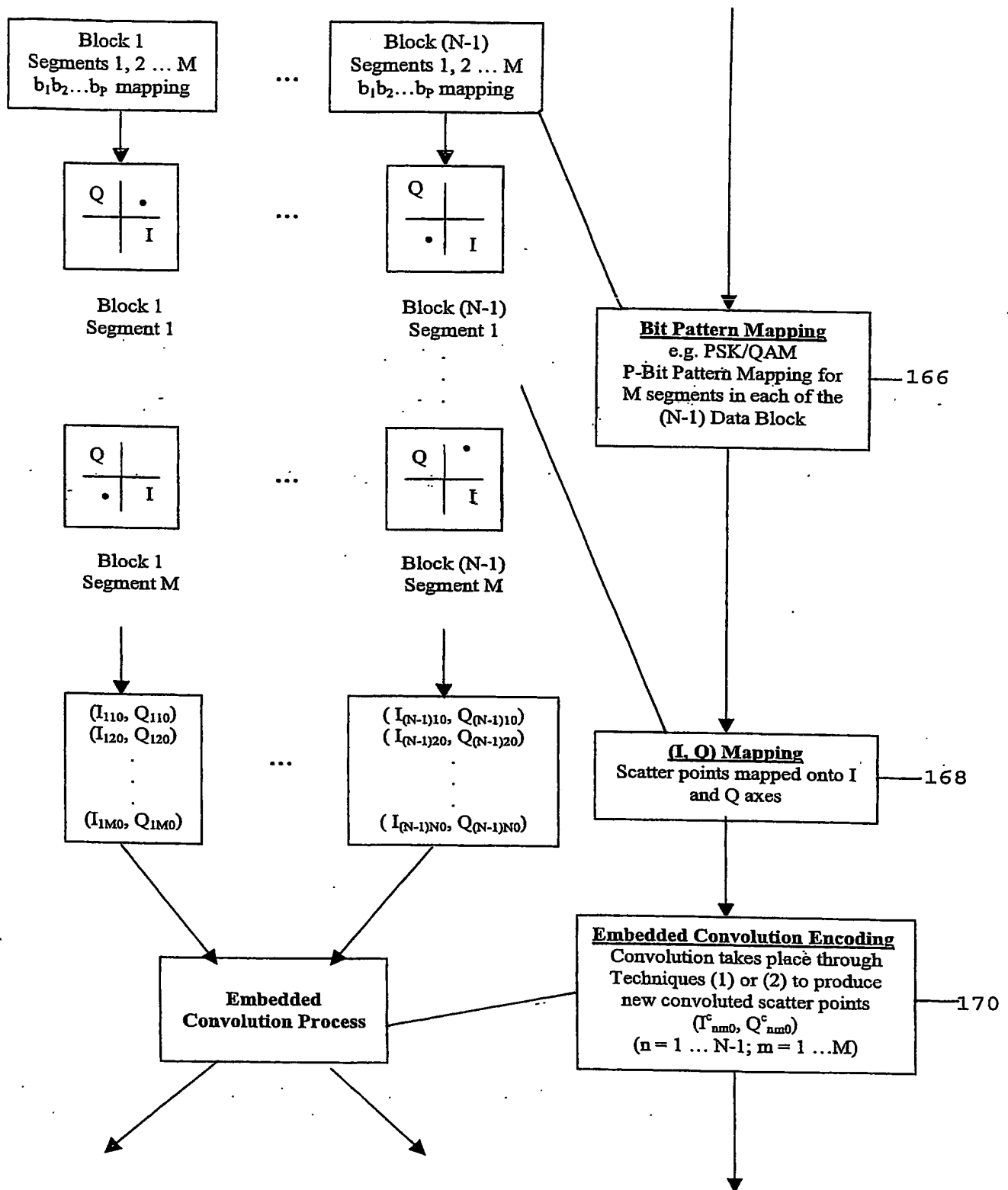


Figure 35 (Contd)

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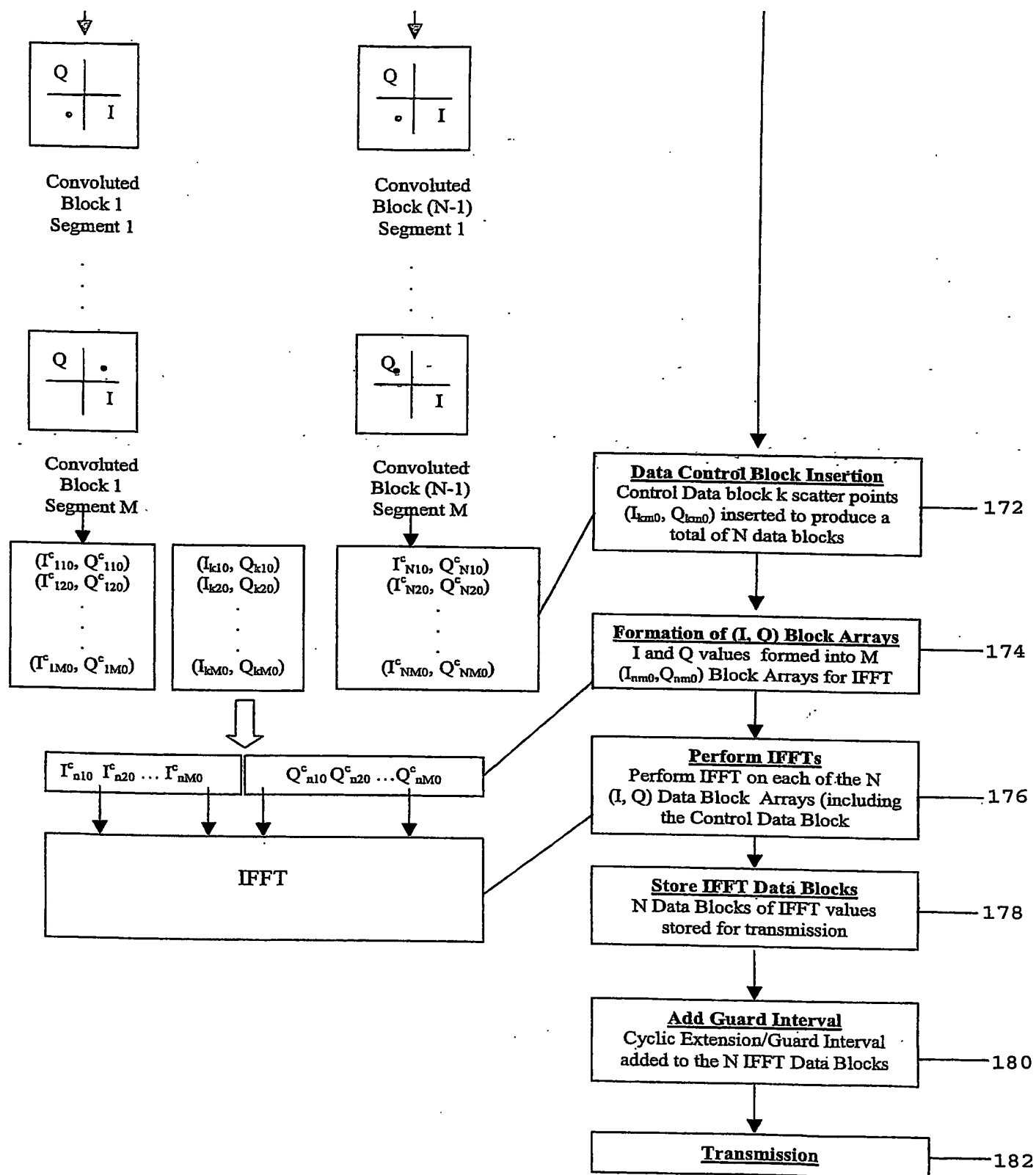


Figure 35 (Contd)

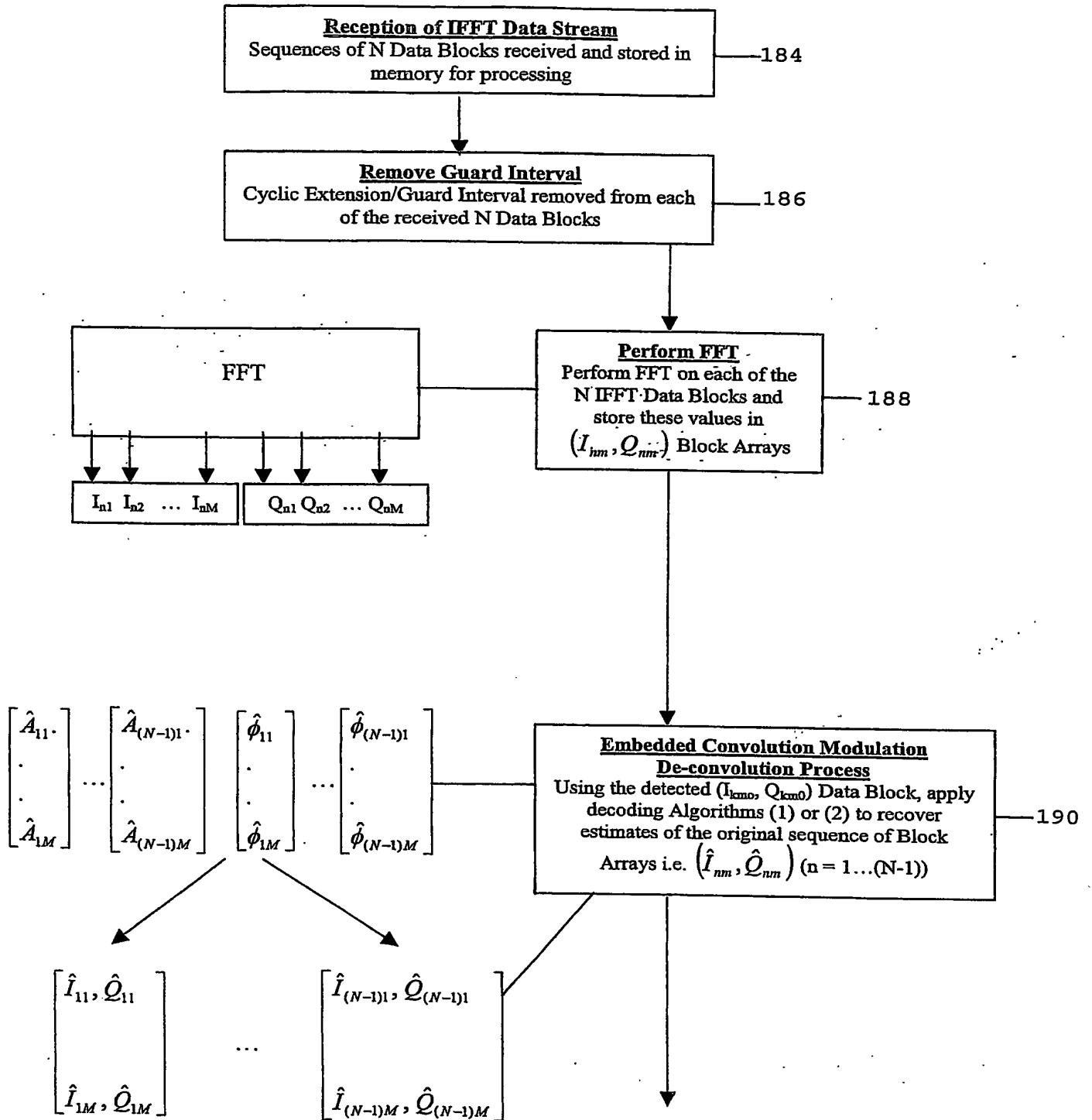


Figure 36

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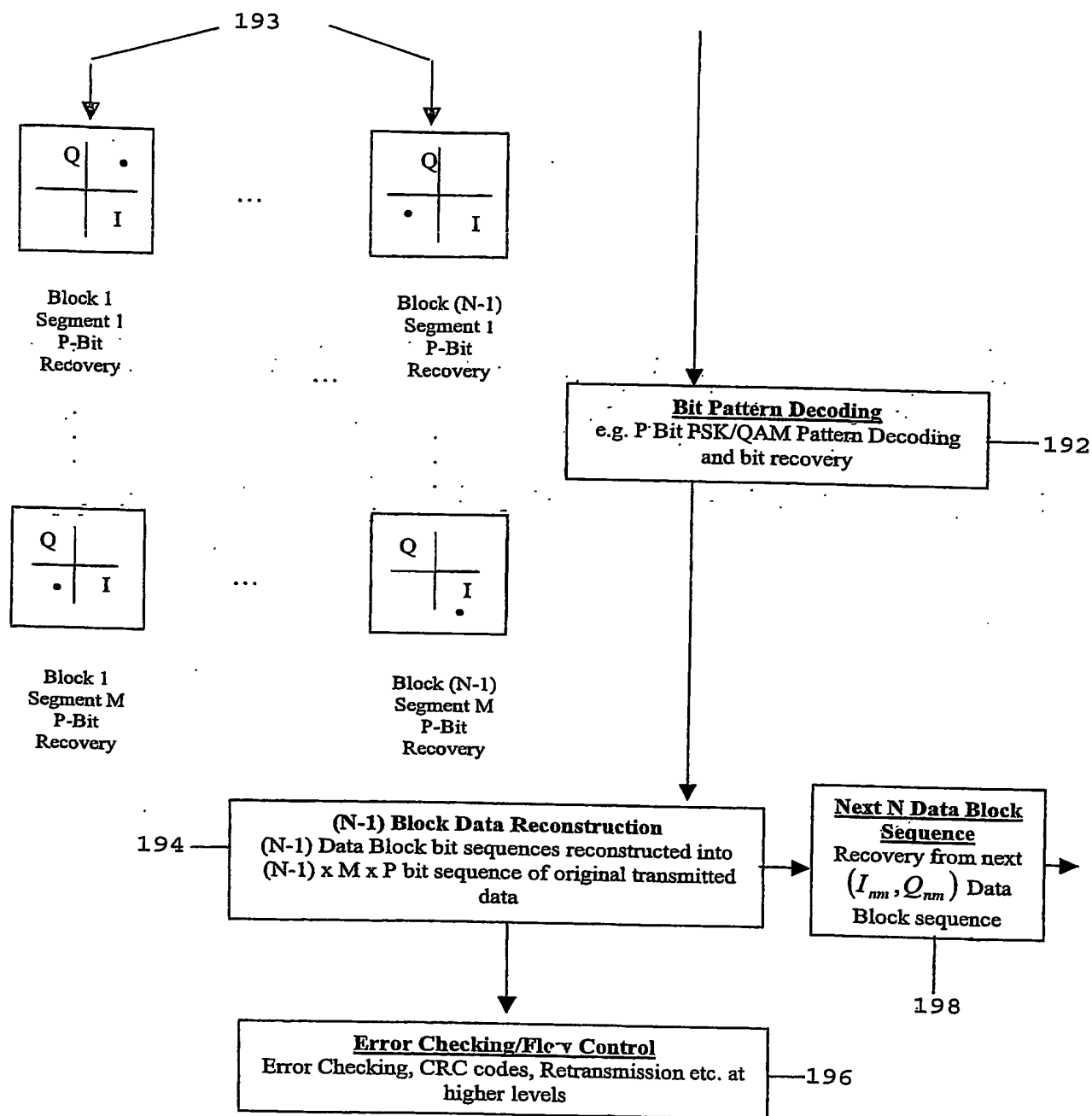


Figure 36 (Contd)